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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/562,015	05/12/2006	Hiroshi Kurosawa	Q92187	2976	
23372 7590 122312908 SUGHRUE MON, PLLC 2100 PENNSYI, VANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAM	EXAMINER	
			HANLEY, SUSAN MARIE		
			ART UNIT	PAPER NUMBER	
			1651		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/562.015 KUROSAWA ET AL. Office Action Summary Examiner Art Unit SUSAN HANLEY 1651 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 11 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 and 8-10 is/are pending in the application. 4a) Of the above claim(s) 4-6 and 8-10 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-3 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 23 December 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date \_

6) Other:

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#### Election/Restrictions

Applicant's election without traverse of Group I, claims 1-3, in the reply filed on 9/11/08 is acknowledged.

Claims 4-6 and 7-10 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 9/11/08.

#### Claim Suggestion

In claim 1, at line 1, it is suggested that the phrase "floating culture of" be changed to -- floating a culture of --.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 is rejected becsue the intended structure of the polymer is confusing. It is unclear how a polymer can comprise a homopolymer of monomer M and a copolymer of M and another monomer at the same time. Is the claim intended to limit the polymer to (1) a homopolymer of monomer M or (2) a copolymer comprising the monomer (M) and another monomer?

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Claims 1 and 2 are rejected becsue the ellipses preceding "(1)" and "(2)" are confusing. It is unclear if the period marks are intended to end the claim or if they serve another undefined purpose. A claim is a single sentence having a single period mark at the end of the sentence. It is suggested that the period marks be removed.

Claim 3 is rejected because it is a dependent claim that does not overcome the deficiencies of the independent claim from which it depends.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Sawada et al. (published on-line Feb. 2003).

Sawada discloses a vessel comprising a six-well tissue culture plate having a PET plate coated with a polymer wherein said polymer-coated plate is set into said well. This configuration meets the limitations of a vessel becasue it is a container (wells) that can hold items. A portion of the vessel is coated with a co-polymer that is poly(MPC-co-BMA) (PMB) (see Fig 1) which meets the structural limitations of the compounds of compounds 1 and 2 wherein n=2, R<sup>4</sup> is CH<sub>2</sub>CH<sub>2</sub> and R<sup>1</sup>=R<sup>2</sup>=R<sup>3</sup>=methyl. (p. 413, left col. under the heading "Culture of the cells...").

Sawada does not teach that the vessel containing the plate coated with PMB can be used for culturing stem cell embryoids. The limitation regarding culturing stem cell

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embryoids is a recitation of the intended use of the vessel. The intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In the instant case, Sawada teaches a vessel having a surface coated with a phosohorylcholine-containing co-polymer (PMB).

It is noted that Sawada is silent with regard to the P/C ratio as measured by X-ray photoelectron spectroscopy. However, it is noted that In re Best (195 USPQ 430) and In re Fitzgerald (205 USPQ 594) discuss the support of rejections wherein the prior art discloses subject matter which there is reason to believe inherently includes functions that are newly cited or is identical to a product instantly claimed. In such a situation the burden is shifted to the applicants to "prove that subject matter shown to be in the prior art does not possess characteristic relied on" (205 USPQ 594, second column, first full paragraph). In the instant case, the co-polymer taught by Sawada meets the structural limitations of the structures (1) and (2). Thus, the artisan would have reason to believe that the co-polymer taught by Sawada inherently meets the limitations for the P/C ratio.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUSAN HANLEY whose telephone number is (571)272-2508. The examiner can normally be reached on M-F 9:00-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sandra Saucier/ Primary Examiner, Art Unit 1651

/Susan Hanley/ Examiner, Art Unit 1651